IN THE CLAIMS

This listing of the claims replaces all prior versions of the claims in the application.

Please cancel claims 1-2, 18, 21-23, and 29-45.

- 1-2. (Canceled).
- 3. (Currently amended) An isolated polynucleotide encoding a polypeptide of claim 1. an isolated polypeptide selected from the group consisting of:
 - a) a polypeptide comprising an amino acid sequence of SEQ ID NO:2,
 - b) a polypeptide comprising a naturally occurring amino acid sequence at least 90% identical to an amino acid sequence of SEQ ID NO:2, said polypeptide having thioredoxin activity,
 - c) a biologically active fragment of a polypeptide having an amino acid sequence of SEQ ID NO:2, said fragment having thioredoxin activity, and
 - d) an immunogenic fragment of a polypeptide having an amino acid sequence of SEQ ID NO:2.
- 4. (Currently amended) An isolated polynucleotide of claim 3 encoding a polypeptide of claim 2 comprising an amino acid sequence of SEQ ID NO:2.
- 5. (Original) An isolated polynucleotide of claim 4 comprising SEQ ID NO:4.
- 6. (Original) A recombinant polynucleotide comprising a promoter sequence operably linked to a polynucleotide of claim 3.
- 7. (Original) A cell transformed with a recombinant polynucleotide of claim 6.
- 8. (Withdrawn) A transgenic organism comprising a recombinant polynucleotide of claim 6.

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- 9. (Currently amended) A method of producing a polypeptide of claim [[1]]3, the method comprising:
 - a) culturing a cell under conditions suitable for expression of the polypeptide, wherein said cell is transformed with a recombinant polynucleotide, and said recombinant polynucleotide comprises a promoter sequence operably linked to a polynucleotide encoding the polypeptide of claim 1, and
 - b) recovering the polypeptide so expressed.
- 10. (Canceled).
- 11. (Original) An isolated polynucleotide selected from the group consisting of:
 - a) a polynucleotide comprising a polynucleotide sequence of SEQ ID NO:4,
 - b) a polynucleotide comprising a naturally occurring polynucleotide sequence at least 90% identical to a polynucleotide sequence of SEQ ID NO:4,
 - c) a polynucleotide complementary to a polynucleotide of a),
 - d) a polynucleotide complementary to a polynucleotide of b), and
 - e) an RNA equivalent of a)-d).
- 12. (Original) An isolated polynucleotide comprising at least 60 contiguous nucleotides of a polynucleotide of claim 11.
- 13. (Withdrawn) A method of detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 11, the method comprising:
 - a) hybridizing the sample with a probe comprising at least 20 contiguous nucleotides comprising a sequence complementary to said target polynucleotide in the sample, and which probe specifically hybridizes to said target polynucleotide, under conditions

whereby a hybridization complex is formed between said probe and said target polynucleotide or fragments thereof, and

- b) detecting the presence or absence of said hybridization complex, and, optionally, if present, the amount thereof.
- 14. (Withdrawn) A method of claim 13, wherein the probe comprises at least 60 contiguous nucleotides.
- 15. (Withdrawn) A method of detecting a target polynucleotide in a sample, said target polynucleotide having a sequence of a polynucleotide of claim 11, the method comprising:
 - a) amplifying said target polynucleotide or fragment thereof using polymerase chain reaction amplification, and
 - b) detecting the presence or absence of said amplified target polynucleotide or fragment thereof, and, optionally, if present, the amount thereof.
- 16. (Withdrawn) A composition comprising a polypeptide of claim 1 and a pharmaceutically acceptable excipient.
- 17. (Withdrawn) A composition of claim 16, wherein the polypeptide has an amino acid sequence of SEQ ID NO:2.
- 18. (Canceled).
- 19. (Withdrawn) A method of screening a compound for effectiveness as an agonist of a polypeptide of claim 1, the method comprising:
 - a) exposing a sample comprising a polypeptide of claim 1 to a compound, and
 - b) detecting agonist activity in the sample.

- (Original) A composition comprising an agonist compound identified by a method of claim 19 and a pharmaceutically acceptable excipient.
- 21-23. (Canceled).
- 24. (Withdrawn) A composition comprising an antagonist compound identified by a method of claim 23 and a pharmaceutically acceptable excipient.
- 25. (Withdrawn) A method for treating a disease or condition associated with overexpression of functional SECP, comprising administering to a patient in need of such treatment a composition of claim 24.
- 26. (Withdrawn) A method of screening for a compound that modulates the activity of the polypeptide of claim 1, the method comprising:
 - a) combining the polypeptide of claim 1 with at least one test compound under conditions permissive for the activity of the polypeptide of claim 1,
 - b) assessing the activity of the polypeptide of claim 1 in the presence of the test compound, and
 - c) comparing the activity of the polypeptide of claim 1 in the presence of the test compound with the activity of the polypeptide of claim 1 in the absence of the test compound, wherein a change in the activity of the polypeptide of claim 1 in the presence of the test compound is indicative of a compound that modulates the activity of the polypeptide of claim 1.
- 27. (Withdrawn) A method of screening a compound for effectiveness in altering expression of a target polynucleotide, wherein said target polynucleotide comprises a sequence of claim 5, the method comprising:

- a) exposing a sample comprising the target polynucleotide to a compound, under conditions suitable for the expression of the target polynucleotide,
- b) detecting altered expression of the target polynucleotide, and
- c) comparing the expression of the target polynucleotide in the presence of varying amounts of the compound and in the absence of the compound.
- 28. (Withdrawn) A method of assessing toxicity of a test compound, the method comprising:
 - a) treating a biological sample containing nucleic acids with the test compound,
 - b) hybridizing the nucleic acids of the treated biological sample with a probe comprising at least 20 contiguous nucleotides of a polynucleotide of claim 11 under conditions whereby a specific hybridization complex is formed between said probe and a target polynucleotide in the biological sample, said target polynucleotide comprising a polynucleotide sequence of a polynucleotide of claim 11 or fragment thereof,
 - c) quantifying the amount of hybridization complex, and
 - d) comparing the amount of hybridization complex in the treated biological sample with the amount of hybridization complex in an untreated biological sample, wherein a difference in the amount of hybridization complex in the treated biological sample is indicative of toxicity of the test compound.

29-45. (Canceled).

46. (Original) A polynucleotide of claim 11, comprising the polynucleotide sequence of SEQ ID NO:4.